Notebook Series -- Pocket Notebooks
Notebook, PN-12-03-10

The dated entries in this pocket notebook are from February-April 1912. The book was used by Edison to record ideas about business matters, experiments to be tried, and other tasks to be performed. Many of the items have been crossed out. Included are notes relating to storage battery tests, country house lighting, phonograph records and reproducers, the home projecting kinetoscope, the kinetophone, rectifiers, and ore concentration. In addition, there are lists of inventions to be patented, along with lists of songs (including some suggested by humorist Walt Mason) and recording artists, The business-related entries include notes about record sales, advertising ideas, legal and patent issues, new companies, dealers, and educational and other films, along with data on costs and salaries.

Among the numerous Edison employees mentioned in the book are assistant engineer John R. Anderson, Jr.; chief engineer Donald M. Bliss; experimenters Charles T. Dally and Alexander N. Pierman; Frank L. Dyer, president of Thomas A. Edison, Inc., and head of the Legal Dept.; chemist Ignacy Goldstein; Walter H. Miller, head of the Recording Dept.; machinist and longtime Edison associate Frederick P. Ott; his nephew, chemist Ludwig F. (Louis) Ott; Brian H. Philpot of the Disc Record Manufacturing Dept.; and machinist Albert F. Wurth. The pages are unnumbered. Approximately 160 pages have been used.

Songs Walt Mason suggests

Hymns:

Rock of Ages

Yield not to temptation

What shall the harvest be

Just as I am without one plea

I need Thee every hour

Sun of my soul

The Ninety + Nine

Old Songs

Grandfather Clock

Lorena

Old Log Cabin in the Lane

O Fair Dove O Fond Dove

Twas on Trafalgar Bay

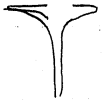
Tuesday Miss Foxine
Miss Wainwright
Wednesday Miss Hopkins
Miss Holden
Friday Forbes
Miss Thompson

Find out where are those long glycerine Horns -

Get a 8 foot Ruler
Cut Knobs in track
Report [illegible]
north Power of Tuesday

And 4 patent strips across 1/8 tube plates -

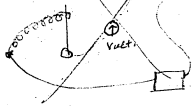
Walter Miller -
How about Jeane Mahlborg Coulbalt's
Bernice Pangrah Sophomore
Florence Wickham Coulbalt's
Leonora Sparks Sophomore all
at Mrs O'Hara



Horn

When the Dereceived req Fz in def sig is come off tail make cold test -

House Lighting



Hand Req for House - short with Rev in & [illegible] by hand
Voltmeter

Why cant dealers rent phonos
1st monthly payment then buy
records,

In Advertising new disc in
Local papers Make it one
dealer one mention another
dealer another hence all new
ads will advertise all dealers

Get pieces 1/2 thick Cowhair
felt,

boxes in cabinet out steel
metal wood —

Chamberlin

~~Low Oil~~ white wax first a
Solvent which doesnot
attack it then make thin
solution of soft sealplanes
like wax of dips of Coat
it with film, wax can
track deeper with 2
seperate layers use last
layer 1/2 to 1/3rd of 1000
inch thick

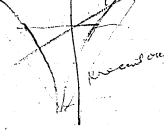
or dip several layers 1/4
of 1000 thick alternate
layers with solvent of
one which does not
attack the other

Use dia 5/8 of 1/1000 thick with
center piece fractured rigidly
around edge so amplitude
limited at center jumps out

for straightfred recording cylinders.
Use a wax than an Alcohol
of the very acids —
or a paraffine or spermaceti
Oleamide of Cal Sela
Asphalt, Paraffine,
Phenol Resin —
Ceresin — Japan wax
Alcohol from Carnaubas
" " from spermaceti
" " Beeswax
Stearic acid
Rosin — Resins,
Myricin, wax in beeswax
insol in Alcohol
Oleamide alkine alcohols
Ammonia on oil almonds
Diamyl-one-lapidine,
resembles paraffine,
Stearic, Sub, Vinet,

Use ~~hand~~ memorium of home
Cellulose of measured
distances to test sensitivity
of funnels with Mean 7/8
between —

Have a funnel made
of paper cut lengths as
Cones on the paper Mechanism.



My heart at thy sweet
voice, Tennyson & Edelah-
fine, Brantfest —

Wood bird Mayra (Orleans)
for Siegfried Mexican
beautiful do J. W. M. says

Swan Song
Lohengrin / O.K.

Overture from Tuckerman
Have female voice
in it — beautiful
Quick sum [illegible]
long drawn out

Stabat Mater
Rossini — beautiful

Rigoletto
La Donna è Mobile
sight thing perfect —

Gioconda
"Dance of the hours"
good —

Steel nickel plated
& welded —

5 oz. [illegible] Wooden
Piccolo

Wally [illegible] Gioconda
Printing — fine —

Oh I have sighed to
rest me — Troubadour
fine.

Duet in act III - good
Romeo & Juliette -
Valsecrita - good

"Dearest Norma"
Norma by Bellini
Most beautiful thing
get this

Martha - "How so fair"

Mauritiana - by Wallace
"Happy Moments" very
Beautiful -
also "Scenes that are brightest"
fine -

Carmen = "Toreadors song"
good
Entered in my book

Make three way funnel
use coatters & get 3
funnels alike, + test
one with others on

See how Dolly Gallagher

Write Bachmann to let
Bachmann go -

See sale of Crane job also
Ebra Machinery for 1000 daily -

Miles Alford Baldwin
Digging room like Arkem
lead a pan in Japan room
at Works -

CMJ

See Al Wurth about 4 masters
& 16 submasters daily —

Make some very saturated $CoCl_2$
$CoSO_4$ — & 2 other very saturated
Cobalt Salts & soak 3 each of
Reg tubes & also 1/8 tubes
Each & work regular

Duplicate with double
dip after KOH & washing
first dip —

Take 6 long tubes after
10th Run Wash out well
& dry — then dip in
Cone Cobalt Sol & Rerun
—

Of the several old cells
journey table, wash
dry & dip in Cone
Cobalt Solution &
Rerun

Bad results Sent R 4/8 hours

Keep Premium Gray on
5/8 Recorder & funnels —

White Celluloid
graphite one ~~see~~ how it
works — Coating end
with Rubber & then
painting blue on ends

See Philpot progress

Al Wurth if he uses
need idea grafting on
Cylinder —

Lorber ~~out~~ assembling
1 doz need repairs
to ~~test~~ at Lab —

Chrushum ~~of~~ Lime Cone
also amount ~~of~~ tubes
on hand ~~also~~ Beaways
Expt —

Record that Contralto Duet
Tuesday night

Waller Mulay - all
Collins + Harlan
Negro Melodies
LaLoy - my Sambo

Let Brown go —
Melodies in Crams
Lost 7 weeks —

Demonstrator to send to
England Home
Melodium + Theatre —

RC 1500 - Gigolo just
mixed see how run +
LW

Druffsmith / get reduction
5 lbs 72 - / Section Expanding

Mulder - / - Tesoy Roll -
brought to see heat + percolate
see if cylinders —

Japan / see Spraying
go for 1941

Lovy all = Alfester Paris
mixed paper fabrics —
= Renfors plain + with
paper fabrics + def arts
fabrics see maximum —

Oxyche W/ fresia same
way

Parallel paper fabrics
reenforced - Peta

Thunderbolt powers
heat Cement Milky

(15)

Go over House film box & see if designs for cheap & then see Cobert. Think its too expensive ~~company~~ complicated

Write Chas Brother Corri enquiring How much he has on hand & what he will ~~[illegible]~~ take for it by Tom, & what price he pay for Cobert) —

Henry McCalden up on farming FESOY with Nacht
ditto clamping McSoy & Nacht,

Walter Miller & Al Miller
3 Mucked cylinder blanks
New grafting gloves
for testing shipping records moulding

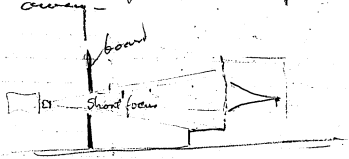
Dunwiddie — get Knights Mechanical Movements up at house also the 507 Mechanical Movements —

Golf & Tennis Colyngal & Camera for small film to photo our subjects for lectures as we make them save money

Pierman — Try 1½ plier
Weca — Clamped regid
also smaller one regid
clamp to work on pipes
Electricity of chas & nat of the Rockies —

Phone Cobert $40 mach
Mould wire mesh
Cement gun — gradually build up, quickset
no Appeal

Hughes Geiger were made painted with figures to catch eyes - + funnel behind instead front, then 5 ft away -



~~Rec of Fitel [illegible] after Cylinder for Dendrum Pieces Test -~~

Gerd V	60 %
Anderson	15
Lemsden	10
FMCo	10
Walker	5

Mendoroff drive up Contract Thursday

Crystals Mg SO4 11 Gm 20 mcg - stirred + separated with the sight quantity NaOH strong - ~~[illegible]~~ don't break Crystals if possible

Ditto Fe SO4 dry quick + ignite to red - perhaps Reduce with then Nahuqm

At Worth - don't handle
resistors with fingers
in any Event, wash & dry
well before silver-plug for
submersion —

Go ahead make a
metal & MgO disc of
Contours that I thought
drawn

See L Oth Cabinet
Experiments,

Listen to Scriabin the
3 White Records

Patent pending on
plaster Paris to mount
the Pallchord Records

Premium track light &
have one singer sound scale
without jumping by standing
away (can't see of course)
see Ragged Tone —

Exhaust that lot of
Tesla rolls equipped Fe &
have L Oth clean out &
then Nitrogen — last —
8% HgO Dry —

Edison to see Koco 20 mesh
MgO acts on how 21%
NaOH poured over it —
also stronger NaOH,

W Miller, Monsh Miss -
with Water Combined nearly
up — good acetate —

Buy Aluminum Nonsidewalk plates —
Hyperniche (hard) plates

Silver Bells sic Quirk
good talent — entertainment.

Do the Cabaret Dance
Cuban tomorrow and
seem to enjoy it very
much — Floor

Norma by Jacobson —
Concert time seems, also
arrange for Opera house
of song

Atlas Quicksilver
Diesel Engines for
Battery Co

Photo orchestra & player piano
250 Gramophone Bell Eagle Mammoth Pic
Theatre an outfit of Dalmason
Reg size or at about of
show play Orchestra —

This gives enormous opening
for future —

Note before go south
Caribbean & Cuba hear
good deal record &
Victor at same time

Get barrel of Keenes
Cement for repairing on
Cabinets —
use reinforced concrete on
Pitman —

Feb 1 1912

closed with shredded Tracing Cloth -

This makes a sound better for Pianos

Rubber

Tracing Cloth

Mr Goodwin experiment at Cooling Plant

Tracing Cloth

perforations -

break up focused tone -

vertical diminishing volume mechanically

Mr

See page 6 -
"Mines & Minerals" peel at Scranton - perhaps [illegible]
Loco no mention of Shovels

Porter also builds Kopelli Contraction Storage Bat
Loco - also for handling blast furnace cinder -
also in steam shovel
Quarries phase of horses
also Tubs this up with Local Coal [illegible] Machinery
Villa in Coal Region

Bliss - shovels we have
large Horse Repulsion
or put 2 in, & split the
horse in [illegible]

Marie some 10 week
Crystals NaSO4
1.6 oz - 1 .6 oz NaCO3
dissolved 60 grains water
put Crystals in Revenbo
& pour in bottle
also another batch
very dirty but night
little drop water 100
water in Recirculation
We also [illegible] load
not a step backwards

J V Miller from
Rumsey Barby

Philpot Drake
Cellulose Oxyand
at temp Hypressor
at —

Blue House Regulator
for prop Current Relay
in series, around neg
Coef Res + regulator by
Res in Clt of line field

legal Dept get me up
a book + enter all appliances
from 1909 to date what
for + keep it up every
week —

See if Meadowcroft has lost
of time I suggested
also have Monster type Ads
& send to Coates Milan

Cafe des Beaux Arts
40th St & 6th Ave
Negro Singers

Filter press, regular amount
Extra Wash to make heavy
Loading but use water only
Enough to make thin
pulp then filter press
20% washed off
30% "
40% "
50% "
60% "
70% "
all clean
Dry on Hotplate

Measure water going up
out of pulp press

Wurth - Pick up at
once for cold glaking
dress

Rated 2½ allowp. Monel - gauge
Silver or pure Ni or Ni plated
for condensate transfers -

ditto on alkali for cleaning

Change Cobbet & 4 plates
tomorrow morning to
fresh & on Saturday
Change [illegible]
Bulbs to [illegible]

Wurth - Requests do
Calumet & Hecla Submarkers
to keep out - crack on
Calumet -
Libbs also [illegible]
also can we waste
all model sub markers
on account cleaning mixer
when on filters and Zerabia
[illegible]

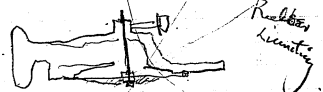
4 pt [illegible] Smith —

Stand Company
with 10 Different Brands
1 funnel + Every
Combination of infusions
etc for a season
Cylinder ms to Quickly
& Scientificness —

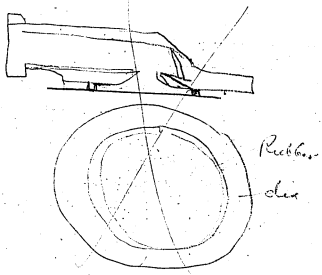
Dyn = Have use good
Open or little flow
+ better perspective
good Cranes —
do forward

Newark 10 1912

Walter Miller use
more than one
blast nex on
recording



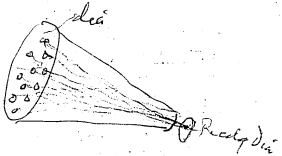
Thompson's cohes not
should light + use
of long house equalizer
also 1/8 tube a raped
chg — also are Cut
buttons & full outfit
they sell with Cut
with Dynamo Regulator
Reading 4 1/2 [illegible] —

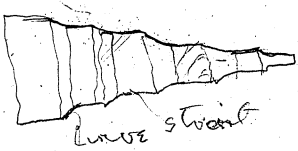


Press, harder felt on base of same felt on top on high
so energy the same,

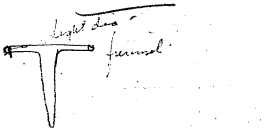
Glass funnels, only solution apparently, if funnel by
Covered mouth try
def Cloth, perhaps glass for mouth

Add Aluminum Powder to Our Cement Chalk get quick hardening





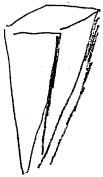
Dip record so leave
1/2 1000 hard on
outside + main
record very soft



Chamber 1/32 Sponge 1.25" dia.

also without dia only holes

Urnite Dally
Use Sulphuric Eq. for
Nitrogen — also Copper
Reduced Eq. H_2 —
also try CO_2 also
Dry NH_4 — also Carbon
Ox



Cut plate glass horn

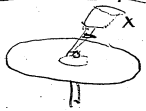
If I Melter Energy
Anodes 1 Crock with
20% Cobalt in Ni —
Spiral flake for Dead
Cells — or Eraser
a Solution with 20 o/o
Cobalt in —

Bless why not 40 cell
cat divided or 40 Galley
or 20 Galley Each section
vibrating transformer —

My Carriage (Andrews)
new motor 20 c.p. —
Rectifying 10 cells on each
30 amp rate —

Use of chalk McCough will act as reader pyr —

Ditto Tellurium on wat paper - def solution



Use fountain pen + Gall Crowder + deposit varnish no bare with free screw + have a scraper connected to Gall pad wax + level down to constant thickness All automatic use a feller at Exit of Recorder X —

Also a spreader with Gall + those put a pool of varnish at Center + have spreader advance it to periphery

Gray Days by Noel Johnson pub Chappell & Co

Sweet. NJ

Ask Dhelpot if Celluloid Co buy scrap celluloid & what do they pay also if he can express a receipt.

Bleach + Lyman — Build Small Electric

Good — precip Mg - wash 7/10th Mg say out, or more, then quick strong NaOH, + dry - precipitate. Try 3 Det various amounts of Excess of NaOH,

try precipitating Na_2SO_4 NaOH
every way with various amounts
$ZnSO_4$ - dry - percolate
then dry with ZnO in, then
put in KOH strong - + percolate ZnO out
also adding $Zn(OH)_2$ to
precip dry wash then dry
+ percolate ZnO out by KOH,

See if formula under
1° objection to peak out
Opal Na Hydrate Volute
+ green Enough to make
2 Liters of solu -

Soak green in Cons
ChlCo 48 hours
precip by KOH, wash
grey dry + soak
again 48 - set
up 2 tubes Cadium
grd soak set up 2
tubes

Soak B1 48 hours -
then 2 tubes, soak
again after KOH strength
48 hours set up tubes
also - 48 hours KOH
dry then ChlCo 48
hours - + test -

See about improving our
filter, Valve at end, the
drip drip -

See about fixing Rubber
bottom to Cam -

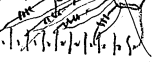
for doing away with Centrifuge
Relay will bounce Regulin
perhaps Tellurium, or some
of the thermo alloys like
Copper sulphide with
change Res very much by heat

or a 50 Thermocouple
will be sufficient

Goldstein makes 2 oz Uranous
hydroxide — make 2 liters
for test

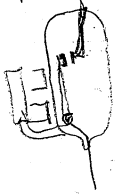
Also have oxide of
Uranium produced by
H or N precip & used in
Iron powder it is reduced
to a sub-oxide like metal
+ decomp H_2O like iron
at Red heat —

Bilas - Transformer
secondary winding 4 sections
12 amps 18 Volts. Each
split 6 ways —
or tap S



precip in green $NaOH$,
some uranous hydrox
concentrated soak 48
hours —

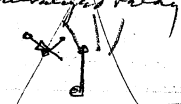
Rectifier —
put controls in vacuum
+ magnet outside —



Theory - Bi hurts iron
its OK with 2 irons
but in cell only one
& this not enough.

End on Cell regulation

instead of Regores put in a
out cells + instead of Coulomb
which wound short circuit
End cells use snap levers
swept by an arm controlled
by worm + motor or
Centrifugal relay



This does away with Reg

& can be used in large
installations other than
House lighting -

Take up forming a Co
to sell lighting outfits
Diesel Eng etc batteries
for farm house lighting
batteries in series 500 volts -
only burn nights - 3 or 4 hours

Bliss hydrogen used
brought slow waste
called hydrogen
little oxygen &
reduce to the Low
Mole little oxygen
so easy based on
standard model -

Regeneration weak Cubes
48 hours Cons No Salt
precip - wash - Lectro
Cobalt Salt -

Dyer about Double
desc patent, chances
of being sustained

Patent Kreuger Circuit Stanford
& Liquid Bowers

Patent after test, Uranium
Ur Oil tests as 1/2. U_3O_8 only
Cobalt

Patent Monel gauge
steel brass Ni plated
Dr as Bourdon —

Make all matchers take
12" Record for 1/2 sec
of Double from patent
being sustained —

Write Wilby about
tracing cloth over Monel
frame stop springs

Write Smith change
crow on longest
Pb. Calb a use 10 gram
crow —

On Blue Ambrose Cup
Pathe type reader
for loudness. —

See Wurth a decade of
W2 are to make calc
Muller submarine
of Cylinder by gold
process think it safer

Run Campaign on
1/2" or thereabouts
diameter deaphrms
1/1000 thick, not rubber
but fastened perfectly
at edges + use only
the stretch of deaphr
to limit compliance

Megaohm pocket 40%
30 + 20% Cobalt
reduced with the 7/2
by H + N. Co reduces
Ox best + preserves
conductivity.

Look at 7/2 + M
pocket cell having
Cobalt 48 hours fid

When get reduced by H
or Nitrogen make some
Nickel + use material
7/2 area Nickelous + Cupreously
Elo. Do the Uran Ox reduced
by H + N. and used alone no Hg -
and also with 7/2 20 30 and
40% Uran Ox -

How would porcelain
Euds to Crucibles do -
#
Improve Yellow, valve at
Euds no drip -
also see if can make
Euds so water drops
easily -

get another man &
Let Rumpenhoff go

Was well to go out
& solicitude Piano etc
new dealers Keep him
at it! — also Dolkeas
& everybody like
Coffee —

See if they have
started the school
of Battery men

UO_2 is the radical (called Dioxide) it
looks & acts like a metal
decomp H_2O at red heat.
its oxidized to UO_3 or UO_2O
UO_3 combines with KOH to
form Uranate, hence if used
as Fe pole wire might get

high voltage like lead battery
if K Uranate is reducable
~~and that~~
It may be both Pt & K pole
can be made with Ur Oxides
according to how we start
& we possibly may get the
high voltage due to combination
with K on both sides as
with lead + SO_4 —

UO_3 is Uranic oxide — only slightly
sol in Water — UO_2 or Dioxide
is the radical, lower ox is
green Uranous — uranic ox — this by
heating the Dioxide, which loses
Oxy
The Nitrate is UO_2 compound
Its UO_2 that looks & has many
of the properties & was thought
at one time to be the metal of
Uranous hydrox not soluble alkalis
or ignition it dont form a
Dioxide — This shows must
start right on battery —

Write Goldschmidt make
3 oz Uranium hydroxide
3 oz Anhydrous Dioxide
3 oz Uranic Oxide anhydrous
also any other oxides of
Uran both hydrated &
anhydrous —

If CO_2 act as a conductor
then load the cell saturated
with CO for a long low
voltage test, delta
Uranium —

How about raising prices
on Horse batteries charging
for the crate extra also
getting stiff prices for
the Regulator Co —

Soak $UO_2(OH)_2$ 48 hours in
a conc sol of an Uranous
salt & manipulate scrap
very — if good,
try double soak —

Smelt Fe Ore a big
Bismuth cell low rate
& then try —

How would 10 cells Na_2SnO_3 solution
which has its cathode very loose
act with KOH, which piece dried
up for a dry small cell
Mendeleff says it is also
a good free to act

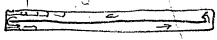
If Bi Uran Co act as
conductor — make 2 tubes
each — dump $UO_2(OH)_2$ 27 mlg
then 6 mlg $CO(OH)_2$ -xo
flake — same with Uran + Bi

CS13

Great Scheme

Plate flake with, $NiSO_4$ sol with Copper sulphate dropping in solution - Close strong Current that plates Ni put on current too weak to plate Ni & commence dropping in sol $CuSO_4$ with Current sufficient to plate it out. Close dropping in $CuSO_4$, run the bath whole with weak Current till Copper out, then strong Current goes on for Nickel -

The Electrode Zorn could be fixed & solution moved rapidly a long Electrode could be used



Later, can dump the $CuSO_4$ in all at once the moment the voltage is made low

If adding $CuSO_4$ makes sol too acid, then Cu anode + connect it at same time low voltage Current is put on - Thus keeps acidity the same - If fine Cu anodes not good could cover a Copper sheet anode close around the bathhook say 1/16 + then get a family strong Cu solution while plating -

Rachmann - pressure foot & saw, for splitting Ni sheet from drum - then finish with a knife -

screw foot - adjust screw for 3/4" of thickness finish balance with knife -

greenly make some flake with 20% ~~nickel~~ Copper in the Nickel -

[ITEM(S) FOUND IN BOOK]

Morristown N.J.

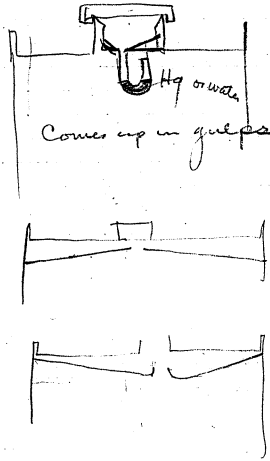
Thomas A. Edison
Orange New Jersey
Dear Sir

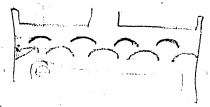
Please send
me a Catalogue
of all the attachments
and parts to a
Standard Phonograph
& send same for
my Machine
and oblige
Yours Truly
H. E. Gibson

Where is the old Experimental flake drum - Have it dragged up to go through a series of experiments with Cobalt & also Copper or other Metals; see the Nickel flake, for long test in ~~[illegible]~~ small Cells & finally in large Cells - put a Wrinkler on

Put a wrinkler on Expanding on gas bubbles from Ni Cell on principles of causing the small bubbles to coalesce into ~~[illegible]~~ big bubbles & these so large they will burst inside a can & let pure gases come out.

Try this - A4 - Valve head -





Rig up a glass cell & Electrodes & use glass devices see how small bubbles can be made by Cordeson & burst.

Perhaps a platinized plate with points in the platinum will burst micro bubbles

Try in tube anhydrous Cobalt oxide possibly A may work

Have a talk with Dyas w're covering up the small 2 or 3 row plants or grow & all necessary things to make it succeed it will one day be the only film used

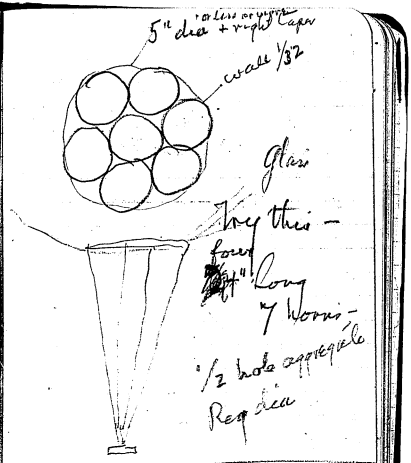
Be sure to have Dally try reduction of Fe_2O_3 by CO & displace H of water by N - see if we can get rid of using H —

Harper make big Cylinder of 1/32 Iron See about large Hydraulic press

Mouldcraft Ltd John Howell see of Cart make cathodic lamps 1 3/4 walls with Trow ges made globe to take care of Neg, reverse voltage

Walter Miller placed hand in front of pipe pack sack etc, always measured of throwing black front funnel, when carrying close -

See Pliers about getting more resistance out of Lillo [illegible]



Some of the parts of moulded steel Cathodic Could be made out of sheet Zinc to get sharp ornaments

Large Cabinets.
Fancy work (of wooden Cabinets) made from Jasper fibre + Creosol wooden, pressed —

~~[illegible]~~

Remember the Electric Welding for thin sheet steel saw at Siemens, use on steel Cabinets

---

If Covered Cabinets wont sleep only sell in N.Y. or Cities where Car Loads lots can be handled

If expansion of premises is trouble with Cabinets blow up ~~[illegible]~~ precipitate silica from silicate thru + heat to make carbyd or go to Sand + Silica Sand — + lighten mass (12) demands machines

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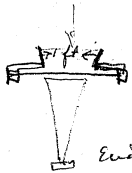
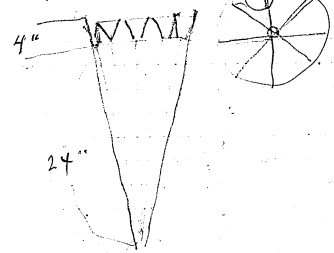
Hold fingers on piano strings — use block record + study Mecro record of the Thimp — also if Can get a double with seasickness records on Thimp I mean



Put a remaker on
record cylinder,
so can track with
8/1000 needle
full width of 10/1000
when OK - use
3/4 Dia very seldom

My cylinder old dag
other other dag

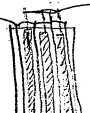
precip Carb Bleaching from pure
Chemical washed developed
washed got no appreciably records
Then dry varnished with a very soft wax
to form a cylinder or Mennen Wax
Cu ferrocyanide & Extremely Colloidal or



Silk stretchy, dotted annual rings
were sewed around Edge a-
use 3/4 of Cerumbaum
or 1/2 dia + use the stretch only
instead of the stretchy of
a dangling

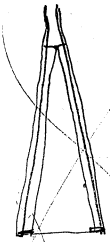
Have how try unwelding
Can by sewing the seam
then Cutting away and
clock

Good idea Dry cell storage

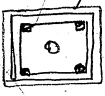


Storage battery
Sheets of the
& Iron pocket Element
Open books in
Helioscopes 72 of
the sheets - change
but not full -

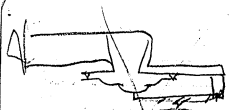
Dry cell



Jewel for Recog.
April 1 1912



only 1/16 to shreadah
gold beaters skin

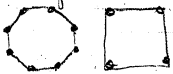


2 to 1 + very
sensitive dia acetic
1/1000 - but changes very

Ask Stevens state of
Argentine aqueous
+ about disc or
Dome Pic machines

If we examine the micro surface of
our funnels or concave atoms of
glass it is at once apparent
that there is enormous loss of
amplitude due to reflection

Hence it is of the utmost importance
that the inside of funnel down to
throat part should be perfect in
surface - This can only be done
by using perfectly polished
glass - probably Sgr funnel
with 1/4" plate glass or
Hex upon

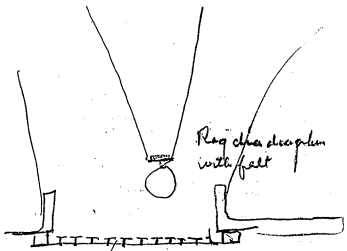


Think volume of weak solution
well be greatly increased -
should be cast entirely glass
or then ground would be
better

Try evaporating green in Vacuo
48 hours, Conc $CoCl_2$ also
$CoSO_4$ - also Ur Salt.
Also - Double coals in Vacuo

If it is impossible to cut 1/4 French plate glass down then carefully cut it as fine as possible + extend with German Silver polished —

also might use a 12" funnel polished + extend to 36" with gel white glass



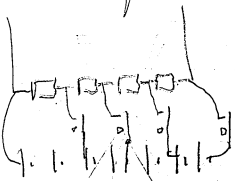
Try 2 tubes no of Cake Regis
" 2 " Pb, gyzew
2 " Cobalt 1%
2 " " Conc $CoCl_2$ 48 hrs
2 " Uranium
This will till of these coordinates,

I OH see if any of the tungsten bronzes have a reducing action —

To get deep tracking use reg wax-turn off in phong, then paint 1/2 of 1000 thyate with a solution of something in a very volatile solvent like Ether or Cyanogen — or Chloride Methyl —

It's probable a 3" diaphm
Telephone with Carbon
Contact. by Geiler & Chapper
Rectifier than lavers
~~Sensitive on spring to be~~
Quad & adjustable

Walking Mans for "shapes"
sections of fancy ifrency



4 wire system Rectifier

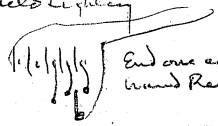
Try whole lot of Uranates
of oxides ~~mass~~ in tubes with
& without $Ni.OH_2$) —
Uranate Cobalt, Ni, lead Mn Fe
& others — they may be conductors

Smith as soon as getting
C, & in quantity put up
several tank cells,
def make Li Ele for
long test, ditto Coffin
perform in Tube & plate
with & without Corrugn
& new Fe 35° Fe —

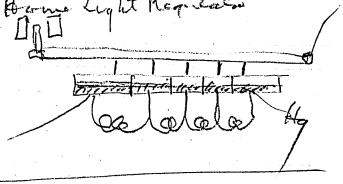
Auto light
Dynamo chge
battery 1 cell of
Time 6 times
normal —

This present chg Voltage
28 floating 2 amp voltage
worm worth Commutator

Auto Lighting



Home Light Regulator



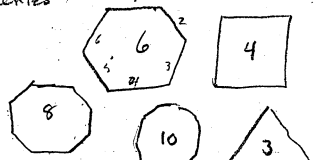
Aluminum - Make NaOH, with
1 2 3 + 5 % Chromium
K Chromate is a precip + dont
decomp even with boiling water
if KOH added to a Chromic salt
the hydroxide combines with
the alkali + make the chromate
salt, its sol in excess
it says but try it, its a
Chromite, The Magnesium
salt dont dissolve in excess of alkali.

Requirements —
Ferric hydroxide combines
with Sugar + Gives a soluble
swelling, its a singular
Compound, sugar must have
to keep mixt and of sugar as
it forms this Compound +
Sugar will not Caramelize
possibly boiling tubes
in Oxygen water after
KOH out will Combine
Ferric to Come off as
Coulombs — ferric ox is very
sol in Ferric chloride
K ferrate is made in strong
KOH - possibly Tube
with Ferric hydroxide of flake
in 33% KOH + 120 LiOH.
wound act a Fe_2O_3 is very
unstable + possibly
Endothermic,

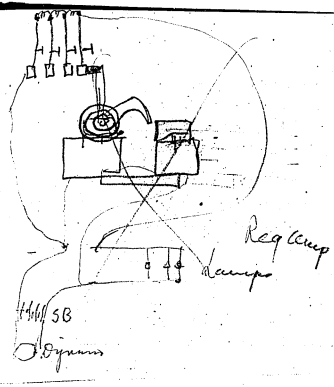
Goldstein,
Try some experiments with
MoOH & Nitrite K.

Treat a Reg iron with
Sugar water to dissolve
out the Ferric, then dry
& repeat a little —

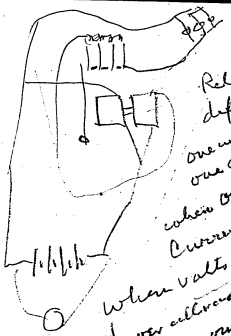
It may be that funnels
should vibrate strongly
so as to diminish large
amplitudes & soften the
sharpness — Make a
series



+ of def Inductance & length —



Put Marks on find —
Solvent of Ferric on tubes
in neutral & alkaline sol
Try reducing the Fe_2O_3
by hydrazine or third
other powerful reducing
Dr Gruetho reads, Hunt
its Consul now

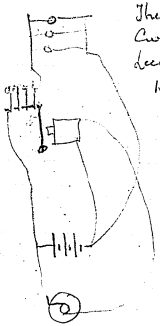


Relay defected one in main one across when OK no Current

When volts means lever attached & Res thrown in

They should very be sensitive

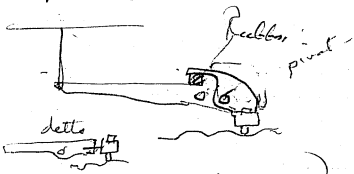
Burn the with one lamp test in lamp current



This permits same Current to flow & lamps with the Regulator on or off.

Put a marker on record
Cylinders with Lacquered
surface for recording
Asphalts & rosin in
Solvents, some use dyes &
slow drying oil
most volatile possible
also driers, mixes of
Components use drying
oils, slaw and oil
bake ovens home ma-
-ccan at Evans begging
Illus upon big field
never used
Even Mushy dope of
Fe_2O_3 Lampblack
& amorphous chalk
mixed with binder bake
grill & penalize in small
quantity & volatile
solvent can be used
+ non cutting point.

New Idea



It will follow the record
independent of design
& is substitutable for cord

Case harden rails by current
right in the track - coating heavily
with Cyanide Leather Glue
finally burning out in swaller
air etc Or rails could be
made soft & case hardened al
well in quantity

New idea —
Make perfect films using a negative 50% larger than now, & positive 1/2 the size of present. film fine enough also provided very get 1000 ft into 500, to help the industry — its bound to come why not start now —

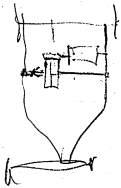
Electric Loco - use the 3400 amp cell with water jacket (10) & double cell 1/8" larger & accessible water while chg. & when discharg water & Mfg cooling device - this beats air cooling patent water cooled cell —

Make C.8, with double can & run test with water cooling —

Bliss. working by phonometer for big disk machine — test #300,

---

Bliss - I suspect lack of efficiency is the high speed Chain - heat on bushing small circle at high speed present Chain speed 1000 ft min — 100 lbs strain —
Cant best be used — at 3000 ft speed or spur gear pinion 5" long



& wind & wear hence not worry

When got back take up matter of model C8 group cells & seals - ditto Dichromate Lamps - small & go ahead -

C4 C6 C8 C12 C18
C24 - D2 D4 D6 D8

Perhaps in regeneration 1/4 gram of acid in tube will dissolve something & thus percolate out. Then put in KOH. Tube dry. Then put in acid water -

Regeneration by soaking coil KOH, then soaking in Ur Co Ag Salts, 48 hours & then KOH.

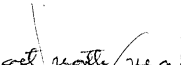
Take up question of no more Home phono reach. Strut screw make a new one - Home is very defective -
Make new line of Cylinder Weakels
Cheapen & use new reader. Diamond point Horn & Horn

Try a Bell Raccoon Telephone & funnel & a very sensitive recorder see if self induction would work but beg waiss use Receiver also for recording

Speak to Dulah Thal in Iron Age advs shows use of bellows to iron work shape rod, Loops, Etc dittos in Elec world for Elec + Motor World for all vehicle cases

New — I find that with funnel + movable disc in front of it that I can by adjusting it near to mouth of funnel nearly cut out high notes without scarcely affecting the low notes because the wave length of high notes are so short the funnel is in shadow — This is a great advance — also it reflects sound

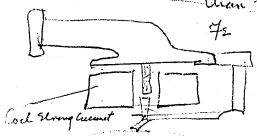
Ladies get rattle make a funnel



disc adjustable

This sound shadow will be good for us work it up

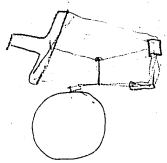
disc I used was 3" larger than mouth of funnel



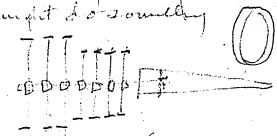
foot thick of feather pillows pressed cagement funnel nearly wipes out base but dont hurt high

on contrary board wipes out high + dont hurt base much

C853



The large mass of the fraction have time to be set in vibration by low modes and not high high hence low absorbed, the vibrations are very strong to hand — possibly this might be something



Sec Bands about this rocker bearings - see if a dagger is for small truck to cell truck -

Regeneration - may be that some of bad contacts in tubes is due to organic matter oxidized - perhaps soaking in CS_2 KOH, would make as Xanthate, & then driven out -

Regeneration
Since immersion in Cone Cobalt
Sealplate dirt heat tubes
Soak in N Soq 30 hours & then
leaves it Cathode + very small
current plate onto the flakes —
~~then~~ Wash solution Neutral
whole plating
This method be good for
Neon tubes, try A 4 cell
tube with Ni + Co
seal plates — hardly being
plated -

Malleable iron is spong see if the adhes in breathing – if somewhat
Reverse it & oxidize
Then reduce it!

Try Specg. Lesson – the Mn on oxdtn in KOH will go out & leave of a porous.

Sulphide of iron? once used
Melt iron & add small percents of S & try Alleyndo
Ox & Reduction see if works.
Some proportion Lab. appl might thing use chloride iron –

good –
Iron Nitride – action of Ammonia on Iron or ferric oxide – also sublimed ferrous chl absorbs NH_3 at ord temp & forms ferro-diammon chloride then when heated nearly to redness is converted into Nitride – from grey powder or lamines, sometimes white mass Easily prepared – use H at red heat reduced to Fe_2 gives off NH_4 heated alone it gives off all its N – probably the Nitride itself can be used direct in bathing
2nd Sup Walls p 751
N_2Fe_4 – 12% only of N –
Effects Nitride w ok we can use Fe_2O_3 & pass dry ammonia & do away with hydrogen

Author Coppal big dealer
in Sugar Pulp also owns
RR See about Gatling Loco

also drawing about Corn
in S & Central America

It is probable that
Fe_2O_3 can be reduced
at lower temp than
with H, if so the iron
will be more porous
or not pyrophoric as
N will be in combin
if it is CO_2 Cold would
displace the H or
Continuing the Ubby Tile
Cold do same thing
Can use Ubby from
cylinder or make it

from Sulphate & lime
or Chloride & lime

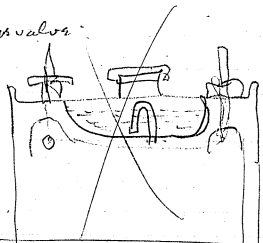
Cadmium hydrox is soft in
Ubby — Stick to pocket well

For the little delivery wag
have false brick or 2 seat from
with small wheels already
loaded so when needed
comes in can be loaded
quick " Sea Blue Metal
have 12 ne shes home to
Great Woman

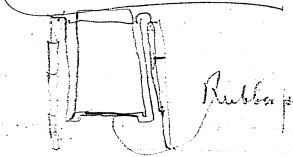
Why cant we use flowder pine
for Cabinets, there is no water in
it & dont think it warps
also Cant German Silver!
transfer of varnish by maple
to Cabinet wonder this would
under pressure & heat

(911)

gas valve



Drop a new tube in machine and
& put on test to see what it
will do —
drop glycerine —
drops Ammonia
" Carbolic acid
" Paraffine —



When get home Cable
Bergman. Careful about
giving Options, Diamond etc

Cowles for Carpentine —
Our stuff — Beach Cos —
Anderson pleasure,
Gen'l Velocity & our small velocity
also. S African —

Take up Freyer's letter
in re jaw [illegible] make
some [illegible] arrangement.

Ask Dyer what proportion
of the Gen'l Film Co do
we have —

See what all the returned
Cells are for —
too many to count me

In plating flake & Co from one crock – The first layer can be done in same crock by running out Ni Sol & put in Cobalt plating Cobalt then running out Ni & putting in Cu Sol. Call Co deep red – then go ahead –

Concrete Cabinet experiment is bad think wood lining + whole so devoted to strong Enough cement Cement – This is percept permanent

Suggest Dyer that the Cowbone bagettes, get out a great feather filing machine Lewis a month that is impossible with the freight to hold the postage of the Cowbone rule off only cookies

Dyer – about weekly regularity arrangement for Mfrs filing for home machine – 1st to keep them out & 2nd to get cheap filing – pay for reg + 2 or 3 units first

Call Beck attention that up to April 1st Flake is still actually grow clad –

Aluminum is 19½c lb
Cast small Cabinets –

Think Steel Asphalt
for moulding is OK
get some from
Barbour Asphalt
Co

Inquire about
Cement Bergen
Turnpike

See if Elkhorn is
O.K. in Conc. Lot
if not can make a
testing –

Long slides moving
only five ft each

See Hulsfeld and
talk over high frais
of Submarine Cell –

Dyes if use could get Optical
printing using coarse grain
first then printing down to
Ethrenson fine grain
slow & fast Cobalt –
also more than 2 pic
on one film – Recovery
film

Since little film is cheap
why not use 3 pic red
since it will like Gaumont
& produce Colors pic

Pumpkinseed Corn, mixed
plated & cooked —
never met.

Specialists talk about add
in Motor print & calculus &
I didn't agree to this —

See Blue Yard Cars
tests —

Bony to Gun Blue Clubs
on Moore Row
Ryder longest are
how long it runs

Water Mellon about
making Lists & little
Louder

Get some 6 amp
Little Cocks show Tech
Quotes June 13

find out about House
batteries

Experiment on the fuses
to for loading that goes
200 in a more get no
from J.V.M.

See about air in Crader
only in drying seed nothing
definite in this wants
a damper hose.
~~also~~

Already

Funny Cerium hydrox combines with K_2SO_4 to form an insol salt instead of sulphate & this is used to separate it from all metals —

Perhaps a cell with K_2SO_4 as electrolyte would work

Goldstein, make 3 or 4 oz Ceric oxide anhy & try in tube, also some Ce_2O_3 hydrate, ~~[illegible]~~ —

also on Zirconia —

Dyer wants to film patent expire. —

Ask Dunwoodie of 2 lenses & prism so pic comes to see around more work

Arrange with Dunwoodie to take over Crystal gun mas

Goldstein 2 oz anhy Didymium, Lanthanum Yttrium, Other rares never tried anhy oxides with new flake tubes —

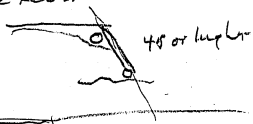
Mark out the Cerium in tube hydrate so other not put on —

Bliss not using Reg auto vehicle wire, solid tires + put it above axles to lower 1 to 2 bottle truck — how my to make it [illegible] better

Restaurant table portable

6 B3 for food

Speak to Hughes about
displaying with the
angle lever



Use open grid

Press Iron in + change
slowly + carefully
well stay wet

Try mix of the varnish with
lamp black to coat canvas
blank - then varnish &
replace than transfer —

Dunwoodie - make details
as enlarged as possible -
also - sketches in sizes of less
space & merging up to
nearly full area fly
Mosquitos etc -

Hughes drop machine for -
Drop 4 mm blue into 2 mm
marbles to get change 2
minutes reminder
no talent slight

Dunwoodie about
work the best work by
done if he is ok
afford raise him to 16
week —

Write several big Concerns for blanks & Customs of Foreign Expenses —

get a supply of Corum from Detroit — also from NY — ask Wolstad Co —

N. Contract Expires June 4 1914 — See Merrill —

Reg Kinetic, wheatcakes was Quaker pie — also Oatmeal.

Patent Grain eight cents for oatmeal

Rice — Barley Orpt from one fact. E barley 1/2 wt of head barley & Can add several hundred thousand lbs for to a truck —

Dillo Buckleiss

Walter Mills what about Comm by Giovanni Altange good opening a real Coffee house

See Smith Kee of Wichaw Navy all the old Kellogs Ni — Depending fund 50 that clerks outside

Maxwell - Disc apparat
Here for 1st time one can
study what the nature of
the great music the man
hearing only one in a
Concert hall is feeling
& one cannot study he
respiration [illegible] than
one in times well calculated
that which does waste
of wit than the Concert
man & [illegible] learn
& appreciate music
of the highest type —
ala

Write & ask for Rules
Concentration

Ferric & aluminum hydroxide
ppt in ammonia & alcohol
Cone - hydra & K salicylate

Bless - How about
Dynamos for Home heating
& light 30 50 light size
want all over country

Up with Meller about
Recording Lab here at Orange

Also drafting design
Higham Recording &
also Bronx at Orange

Piccman -
Use sensitive records, run req speed
get Wheeze pumps - then
double speed see if get them as
bad - see with best double
horn - then [illegible]
Also, Use another Sen Reed
[illegible] Showing on [illegible]
full & [illegible] -
Try Test with best of various
recorders with various kinds of
Reed & Cambs Hard & soft -
If get nearly good Enough record
piano in tent,

Record Piano in tent,
(1st Reg Sens Reed)

Boil old black tube in
sugar & then try Solvents
of wax Try the Wm Sullivan
& Bangorite & Ralph Abby

Single Candle as at Waldorf
battery in Candle, 8 mch leads
or 2 short ones 6" -
Good design for a
Candle one with shade
& mistake, [illegible]

Record photography take
3 scenes here they
will be weak -
Suppose impossible to
record more here

Easington Cement Assn

Com recommends

form sales department to attack all many [illegible] of Unemployed [illegible] Board directors

Trade Jerm —

1st Director being & Gal to develop abroad & go & meets, industry, & hand = more Tour

2nd Jerm Contracts

3 Rules as to dealers & jobbers prices & of def

4 Credit Arrangements

5 Charge storage & Extra prices for closed Consists.

6 Season, time & extent of bind down for repairs

7 Traffic managers for all

8 publicity managers, etc

9 = Yard bag & Cleaning —

10. Export association —

put some new tubes in rusting solution - also Trade Cut down the old tube & fixed on hol plates —

Write Mallory to draw up Recommendation for Corroding trade evils — Cement.

~~Dup Dallas Gold 7/2 wing [illegible]~~

Premium Lake over Recognition & some Journals to test & trial very [illegible] Records) for [illegible] double 2 Co

[111]

See what progress is being
made about Edmundson
or Donaldson

[illegible]

Have Mr Ames see to wiring

Stand Pipe on roof – buy 1/2
Tubes, size 10 & 20
[illegible] 100 lamps

In Boat Room by [illegible]
[illegible]

Cellar – Valve only opens
when the [illegible] in the
Cell

Cell – no lock nut on
flywheel – bearings gone &
fly wheel came off
also [illegible]
several [illegible]
Pressure Pumps [illegible]
Pumps in foul [illegible]
Reeds & [illegible] nails
[illegible]

Tad says [illegible] Langle
load, Especially round
[illegible]

Ask Doll about Mucus
for [illegible] of quilting
Chamois –
Arc light very unsteady

Water [illegible]
hours

Look in office [illegible] dwg of
[illegible] stairs [illegible]

[illegible] pkg at [illegible] plans
[illegible]

Why [illegible] to do it work
Why not [illegible] [illegible]
[illegible] trouble [illegible] lungs
[illegible]

Chalpot [illegible] 2
50 Hp Wilcox 22[illegible]
See [illegible]

See Kaumhoff. 20
amp cell

Cornish wait [illegible]
Send [illegible]
[illegible] House [illegible]
Why Grant Corbett himself
do it or [illegible]

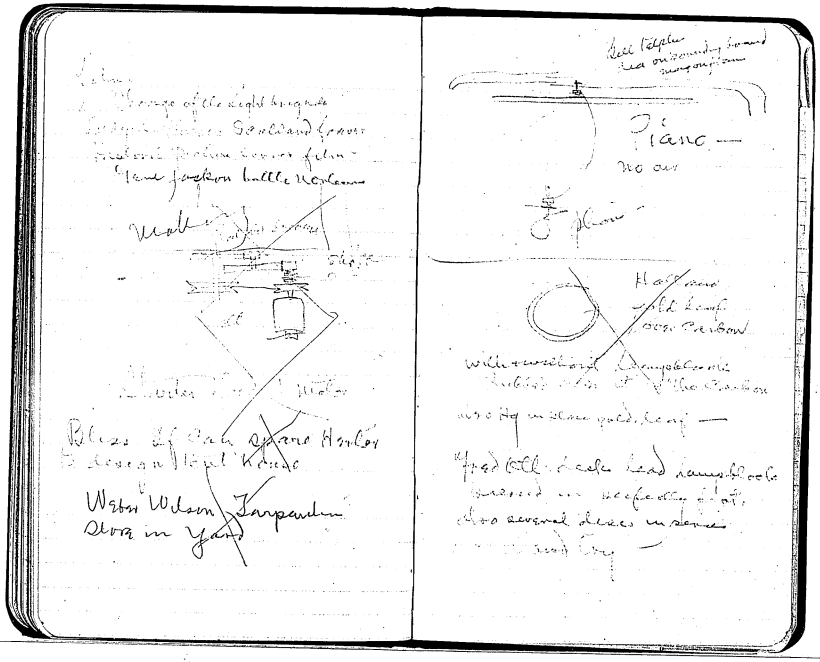
How about new [illegible]
Young Wade

[illegible] not
approved by [illegible]
[illegible] checked

[illegible] column and
[illegible]

[illegible]

[illegible] Lott go up in
[illegible] get samples of
[illegible] in [illegible]
with [illegible]


Plane —
No oil
Hoffman
Wilson Jarpardum
Area in Yard

What Light do they use in
dark to take Wet Developer

Anderson about getting
Aluminum Lamp the
Steel cumbersome —

Wilson — Change out small
film except for formalized film
Have blanks — I suppose
big loss of film in printing
We will never know about
if there is no check —

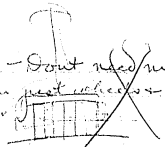
Keep at Slides —
Sell dry plates
Lumpence —
Duplicate U.H.U series of
Slides — Separate Dept.

Smith, did C14 you decided
how the water seal that
Cell must have that put on
& Released —

Find lot old tubes
Soak out & boil glycerine
Soak out & put in
Extremely weak acid —
Test for Capacity

Lott, plate the Iron Copper
Iron, disconnect Iron to
Connect to Copper another
make it Cathode Ni anode
& plate back the Cu out
of Solution then plate
Ni again — This way
No Cu in Sol when Ni is
plated

Fred Ott – Don't need numbering
Meadows just wheels + set to
Cowboy



After 60 feet work see Webber
about passes also a bandit
Dress –

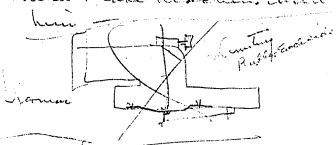
Tell Andrews that
will soon find them 100
1/4 leaders –

Pressman Lehman
Sen Rice will [illegible]
+ also without shadow
test –

Thoroughly [illegible] probably
when we actually [illegible] $100
to end what [illegible]
[illegible] can be seen
+ [illegible] –

Listen to Swan song (Lohengrin)
Wood bird music from Siegfried
Wagner – beautiful [illegible] Sings
play it.

Why cant we teach our
cockyman about Home Made
so he can teach Cameraman
+ take Meadows with
him



Ask Thompson why we
about lighting we cant
use our Regulator on
Oxy –

See if Small film 3 Rose patents
+ shift + the shutter –

In these recently dwelt
more on the great improvements
in recording materials for
recording

Dulley of Nitride of Iron work
good - Make antimonide Fe

Dulley reduces some Common
Hydrox in H, also Zinc
Cr_2O_3 easily in Hydrogen

Smith - Bowlesbourt
Water Cooled coil -

Water that Chemical for Farm
Place of potatoes their steel -

Walter Weller -
Giovani Albanese what
has been done - good opera
voice -

Hard Engineering for 2
50 HP Motors 225 V -
for the part Park Museum
Glass Bridge Bat Co -
London & Silvertown Lake -

Chemistry
Make Citrate of Glycerylic -
yellow transparent aqueous solution
Citrate of Ethyl amorph limpid
Glycerolarsenate Calcium - a glass
Biborate of Ethyl transp glass
Dermolysidic phosphate lemon colour
transp [illegible]
C

try 2 Strips Nickel in
21/4 04 1/2 saturated with
Litharge, Charge Pb deposited
1 parts PbO_2 the other, well PbO_2
deposition itself -

Send for [illegible] & go down with [illegible] Calling [illegible]

Hurry [illegible] list
[illegible]
[illegible]

Moving pic[illegible] up here in [illegible]

Send [illegible] Copy Contract Bergman Co & Letter I gave. We [illegible]

See about getting return films from [illegible] Co [illegible]

Write Anderson [illegible] [illegible] [illegible] [illegible] [illegible]

Kieffer – if we can get KOH to settle in filter, why not use lot of – KOH not [illegible] in our way – get KOH in [illegible],

Gold silver [illegible] column [illegible] dry well [illegible] SO_2 if not if water wet [illegible] [illegible] it if time showers [illegible] with $NaSCy$ [illegible] also Fe_2O_3 [illegible] –

Find out how our negatives are stored important for [illegible] also [illegible] a 2d neg – [illegible] which shall be acetate or [illegible] –

Barnes - work on
Image Department

Harper - finish tools
to press these albums
of which 6 are making
(dies, but cut out lengths - Harper
to help opening slits & mice -
Get men for the museum
Lighting -

Try that breaks separate
of Cardinals & Bird pictures
given but close on room
Rot.

Get larger size - Weathe
new Recorder -
See if home lighting flicks
ok & how soon Cabot aqua-
tys. printed - get small UV
lamp & panel off laboratory

See how Withs gold machine
Coming on - Hello Cathem
expect news

Album with 6 records, each
form - Open & look on 8 pos
for numbers - , for
popular & fancy for high prices
Vol 1 2 etc,

Legal Dept. Are they system
when work specifications ready

Schmidt work that has been
[illegible] art Shelborne
for Philippot and [illegible]

Permanent see how far he
can move a decorator of
Centre, with [illegible] flow
without [illegible]
[illegible]

Hanlon

Filter Chamber for Pulpit Room

16 long 10 ft of [illegible] 22 ft wide —

10 [illegible]

talk with [illegible] best way cut out blanks for forming [illegible]

See if Moore gets his smack disc reproducer [illegible] to fit it on his 1st machine so the 6 will be the way

Bless — Table Lamp —

Why Why do you take out gold necklace & look at it & brush it Why not finish it at one operation

Ask Miller what Chalmers gone to Shaly for after study - Count he has used with Labor —

Film Tears, Lanyles are you pulling them out this way ?

Patent number on Edgar's [illegible]

[illegible] 5 [illegible]

[illegible] no fishes also 5 [illegible]

[illegible] with

[illegible]

Make [illegible] Red [illegible] metal + press [illegible] Want [illegible]

Golf - Why [illegible] reel in box + [illegible] take from reel [illegible] length [illegible] of growly

Legal Dept about [illegible] patent only the [illegible] —

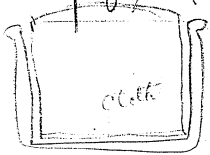
See Wilson [illegible] go to [illegible] + [illegible] Man Happy [illegible]

Make book holding [illegible] & [illegible] [illegible] Intake [illegible] —

[illegible] weak spot
in tube repair.

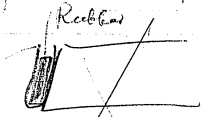
Gell - Can't use gel
bottles Carbon for
Baby and Charcoal
too much Cored
Carbon - acuda
get all funds

Green velvet board
drawing of stand -



left out before put
radiant in -

Strip gold cloth soaked
Chloride and burnt on
surface, Magnesia of
Soda and chloride ignited
[illegible] strip soaked
gold chloride ignited



Copper - weaker it
spongy -

Acc figures have [illegible] Tempest
Commedia) Co Condumer
Julia Clancy Dipping [illegible]
Stockbrook Prima donna
[illegible] Caleja
Giorgioni Lucia, Gagliardi
Silvano,

Wrath, Sick off duty from disc just before I gave hope

Heat Daily refined by Electric wire wheel of Nom

Weber Humphrys on bag disc all right why not

Mr [illegible] broken so far 1 week

Demonstration [illegible] slides & broken [illegible]

Get up 4 sample slides + leaflet

With new wire contact on disc by stealing method. 20 minutes on cracked disc was a transfer to [illegible]

Separate in our Reconstruction Cobalt from Copper for political purposes

Mason acid fire point of our Company formation for pluck pay

Get 2 Cameras, Fred last month, + some old Vic of Newtrue

Footup for Henderson + others

When making tools for
50 Rec shop part shown
Stiff many blades around
Sides, — also back wood
in Drawing & [illegible]
Hop [illegible] [illegible]

Hop Bed [illegible] up [illegible]
a break for 10 Cents [illegible]
all made with Tools, steel,
We make Molasses [illegible]

Smith Chapman & Andrews
for sale, [illegible]

Dalley showing design
Mesh - on pedine
452 -
5102 - Dalley 53. fans
5110 is Millers [illegible]
Imp Cold test (grind) 7s

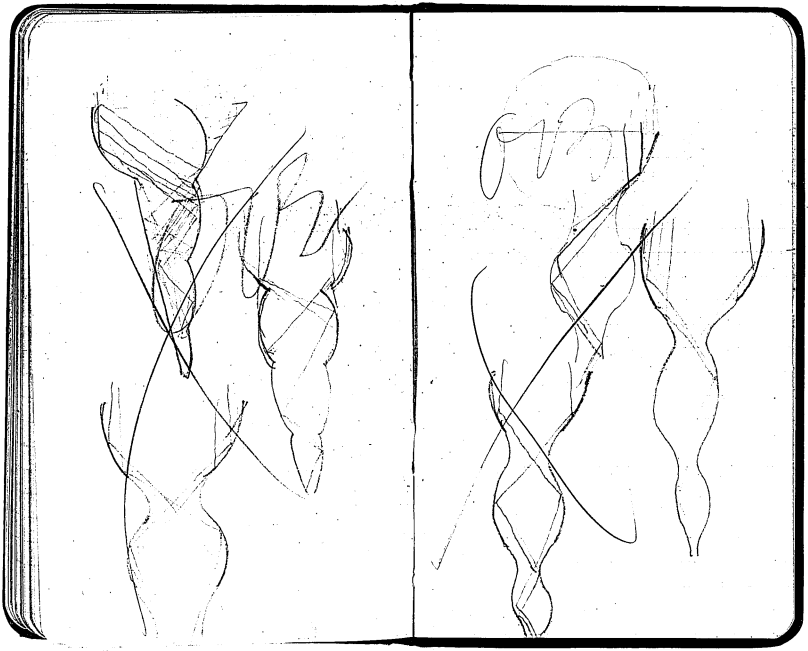
Neatly bitter submission
blanks, W with very
[illegible] some of
Edgette Walker Co

[illegible]
[illegible]
[illegible]

Dabney Morgan &
Recorder Co C D 3 —

Compt reside 64. 603

La Chaudière Compt R
102 1243 1886



Mark letter to Mann

[illegible]

[illegible] drought
dry air there is
very gentle,

Also Also [illegible]

Harry - Did Red ever pay
the whole of his note,

Trey [illegible] Tilted
Hats, old, both pockets
plan pressed not Corr.
Tidy & [illegible] also
disarranged [illegible]

Bergeron: Dover pay
Small any salary -

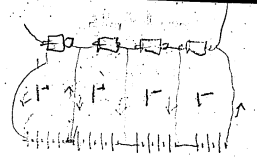
See Higham about hard
Records for talker to
get benefit of new keyboard

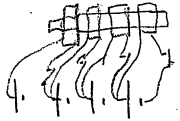
See full Tone Schrum
songs that were marked
fair or good are in
the Song Book -

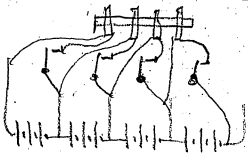
Goldsbe - $995 - Nothing
same as also one
Knoxville,

Fred Goldsbury disco
man [illegible]
Bought get more -

Telefon Sturlovard
how he getting along
on Congressional medal
by no slip up on
time,







Biograph	6	140	656	30
Taz	7	186	299	34
Essanay	5	989	000	
Kalem	5	316	832	
Klaw	4	525	174	29
Luben	5	933	624	
Melies	1	842	857	
Pathe	9	704	106	31
Selig	6	421	351	
Vitagraph	8	775	371	34

Cost Cells A4

Material	4.68
Labor	1.34
Fac Expense	1.97
Assembly	93
overhead	3.13

10 months

Lowest possible receipts 10.26 all dis

based on 87923 Cells assembled

of 8792 month

Cost Neg film Fancy 1.07 ft.

CISS I

100-

60 ohmits 15/1000

120 — 7/7.5

240 — 7/3.75

480 — 7/1.875

960 — 7/.9375

1920 — .46875

3840 — .234375

7680 — 7/1.17187

15360 — .1058

9 times

7/15360
7680

MnO
PbO. } Sol

UranO2 — Easily available
CoO2 — Easily available
NiO2 } unsol
BiO3 — Hard to
AgO } semi sol. "
ThCeO2 — Sol

Phenes battery. Morgan & Hinchman
Anderson
Dent Valinda Sent Elec,
Wallin Elec,
Beach Car
Little Car

$60 day depon
5 2 chps
15
80
31 admit
111

185

140 - 92 50

250 | 9250 (31
750
250

40-
600
24 000

24
90
2156
2156

129000

140-
30
0
77

185000-

8 | 140000
300 | 17500
1500
250

(58

115000
20
360 | 35500
1500
2000
2000

(37

24 80
37
6
900
806
1249
1241
1

15000

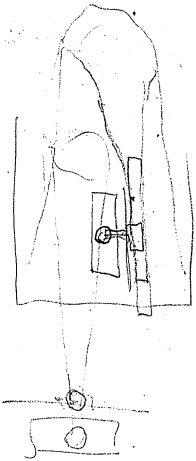
Maximall	90
Dallson	75
Wilson	150
Mellen	75
Farrel	60
Dyer	300
Hardson	90
Hulpert	100
W Mellen	150
Wilson	150
Dickson	75
Z. Lawrence	90
Throckmorton	75
Goodman	60
Goodman	100
Crockett House	100
Phenix	75
Crouchette	100
Pelgrew	65
Pelgrew Pelgrew	100
Throckmorton	75
Richmond House	75
School house	100
Sherman	75
	2480

16

175) 4000 (23
350
500
350
175

2

175) 3200 (18
175
1450
1400



38
60
2280

20000

30
20
600
740
34

37
20
74

480) 20000 (42
1920
80

550
90
49500

1340) 18
2000
3680
26800
9200
8040
1160

(269

27c 46

17
2000
3680
26800
7600

(253

30
360
10

60
10

74
48
122

(480

16

32
220
252

49500

320
252
680

(12

12000
90
108000
90600
74300
43
2869

453)

(2160

2160

2160
864
3024

21600
864